

# 宍道湖・中海における珪酸塩の負荷量の推定

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## Abstract

We estimated the amount of silicate loading to the Lakes Shinji and Nakaumi from April 1999 to March 2000. The Hii River is the major source of nitrogen and phosphorus to the Lakes Shinji and Nakaumi. A L-Q relationship based on the observations is used to estimate the amount of loading such as nitrogen and phosphorus. The computed results for nitrogen and phosphorus concentration distribution show good agreement with observations. In terms of silicate, there was no observations. To estimate the amount of silicate loading, the inverse problem method is applied.

As a results, the estimated the amount of silicate loading is 21 (ton/day) to the Lake Shinji and 3 (ton/day) in the Lake Nakaumi. The Hii River accounts for 75% of the whole loading.